

Publication No. : KR 2001-0058663 A (2001.07.06)  
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Abstract

The present invention relates to a method for fabricating a field emitter array having a triode structure by using a carbon nanotube having a good electron emission characteristic. The field emitter array fabricated by using a carbon nanotube in accordance with the present invention includes a structure having a catalytic layer of transition metal for expediting a growth of a carbon nanotube on an anode, or carbon nanotubes deposited on a microtip of conical or truncated conical shape formed on an anode. Accordingly, in accordance with the present invention, a field emitter array can be fabricated in such a simple way that the conventional fabrication method is applicable thereto except that the steps of forming the catalytic layer of transition metal and performing a thermal process in a vacuum state are additionally executed.